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## **CLAIMS**

## I Claim:

- 1. A lip rolling system for rolling lips about the open mouths of stacked thermoplastic containers, the system comprising:
  - a supply line of nested thermoplastic containers;
  - a screw assembly positioned to receive the nested thermoplastic containers;
- a mechanism for directing the nested thermoplastic containers toward the screw assembly; and
- a heat source having an initial position to direct a supply of heated air at the containers as they are engaged by the screw assembly.
- 2. The lip rolling system of Claim 1, wherein the screw assembly is removable.
- 3. The lip rolling system of Claim 1, wherein the screw assembly is affixed to a removable plate.
- 4. The lip rolling system of Claim 3, wherein the screw assembly comprises at least one screw curling.
- 5. The lip rolling system of Claim 4, wherein the screw assembly further comprises at least one chrome roller.
- 6. The lip rolling system of Claim 1, wherein the screw assembly is permanently affixed to a plate in an arrangement specific to a single container size.
- 7. The lip rolling system of Claim 1, wherein the heat source is capable of being moved from the initial position to a safety position.
- 8. The lip rolling system of Claim 7, wherein the heat source is moved from the initial position to a safety position automatically in response to a signal.

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- 9. The lip rolling system of Claim 8, wherein the signal is generated in response to a temperature sensor.
- 10. The lip rolling system of Claim 8, wherein the signal is generated in response to a system error.
- 11. The lip rolling system of Claim 1, further comprising a mechanism for diverting the supply of heated air from the containers.
- 12. The lip rolling system of Claim 11, wherein the mechanism for diverting the supply of heated air comprises an adjustable plenum.
- 13. The lip rolling system of Claim 11, wherein the mechanism for diverting the supply of heated air comprises a cylinder for removing the heat source from the initial position.
- 14. The lip rolling system of Claim 1, wherein the heat source is removable from the initial position.
- 15. The lip rolling system of Claim 1, further comprising a reciprocating mechanism attached to the heat source, wherein the reciprocating mechanism moves the heat source between the initial position and a safety position.
- 16. The lip rolling system of Claim 1, further comprising stabilizers positioned adjacent the screw assembly.
- 17. The lip rolling system of Claim 1, wherein the mechanism for directing the nested containers comprises a bristled brush.
- 18. The lip rolling system of Claim 1, wherein the mechanism for directing the nested containers comprises an air jet.

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- 19. The lip rolling system of Claim 1, wherein the mechanism for directing the nested containers comprises an inclined surface utilizing gravity feed.
- 20. The lip rolling system of Claim 1, wherein the heated air is at a temperature within the range of from about 400° to about 1,200° F.
- 21. The lip rolling system of Claim 20, wherein the heated air is at a temperature within the range of from about 550° to about 600° F.
- 22. The lip rolling system of Claim 1, wherein the screw assembly comprises from 1 to 5 curling screws.
- 23. The lip rolling system of Claim 22, wherein the curling screws are positionally fixed about an opening through which the containers pass.
- 24. A heating system for a lip rolling machine comprising:

a heat source set at an initial position and having a housing with an open exit end directed toward a container area;

an air source coupled to the heat source; and

wherein a supply of air from the air source is communicated to the heat source and heated to a temperature before being discharged from the exit end toward the container area.

- 25. The heating system of Claim 24, wherein the heat source is capable of being removed from the initial position to a safety position.
- 26. The heating system of Claim 25, wherein the heat source is removed from the initial position to a safety position automatically in response to a signal.
- 27. The heating system of Claim 26, wherein the signal is generated in response to a temperature sensor.

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- 28. The heating system of Claim 26, wherein the signal is generated in response to a system error.
- 29. The heating system of Claim 24, further comprising a mechanism for diverting the heated air from the container area.
- 30. The heating system of Claim 29, wherein the mechanism for diverting the supply of heated air comprises an adjustable plenum.
- 31. The heating system of Claim 29, wherein the mechanism for diverting the supply of heated air comprises a cylinder for removing the heat source from the initial position.
- 32. The heating system of Claim 24, wherein the heat source is removable from the initial position.
- 33. The heating system of Claim 24, further comprising a reciprocating mechanism attached to the heat source, wherein the reciprocating mechanism moves the heat source between the initial position and a safety position.
- 34. The heating system of Claim 24, further comprising a mechanism for directing nested containers through the heat source.
- 35. The heating system of Claim 34, wherein the mechanism for directing nested containers comprises a bristled brush.
- 36. The heating system of Claim 34, wherein the mechanism for directing nested containers comprises an air jet.
- 37. The heating system of Claim 34, wherein the mechanism for directing nested containers comprises an inclined surface utilizing gravity feed.

- 38. The heating system of Claim 24, wherein the heated air is at a temperature within the range of from about  $400^{\circ}$  to about  $1,200^{\circ}$  F.
- 39. The heating system of Claim 38, wherein the heated air is at a temperature within the range of from about  $550^{\circ}$  to about  $600^{\circ}$  F.
- 40. The heating system of Claim 24, further comprising a screw assembly for rolling lips of nested containers.
- 41. The heating system of Claim 40, wherein the screw assembly is positionally fixed about an opening through which the containers pass.